

PHARMACOLOGICAL INDUCEMENT OF THE FED MODE FOR ENHANCED DRUG ADMINISTRATION TO THE STOMACH

ABSTRACT OF THE DISCLOSURE

5 Drugs intended for absorption in the stomach or upper intestinal tract are
administered in oral drug delivery systems in conjunction with any of various substances that
have been discovered to function as potent agents for inducing the fed mode. By inducing
the onset of the fed mode, these agents cause the stomach to prolong its retention of the drug
delivery system, which is either large enough to be retained in the stomach during the fed
mode or swells or expands to such a size upon ingestion. The fed mode inducing agents
10 include the following compounds and their salts: glycine and glycyglycine, xylitol and
related sugar alcohols, sodium and other metal docusates, β -casomorphins, α -lipoic acid and
similarly structured acids, 2,2-diaryl-4-(4'-aryl-4'-hydroxypiperidino)butyramides, arginine,
Trp-Trp, alkylpyridinium halides, dihydroxybenzoic acids, and potent sweeteners such as
aspartame, aspartic acid, acesulfame, and stevioside.

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